

## **What is claimed is:**

1. An automatic car toll paying method, comprising the steps of:  
calling a specific number representing a log in of an automatic charging  
5 through an on-vehicle cellular communication equipment before a car enters a toll  
road or bridge and hanging up; and  
calling a specific number representing a log out of said automatic charging  
through said cellular phone in said car after leaving said toll road or bridge,  
wherein said on-vehicle cellular communication equipment has been logged  
10 in automatic charging when said car enters cell governing area of a  
communication coverage covering a toll station, a cellular base station will inform  
a billing center to automatically chargeback from an account connected to said on-  
vehicle cellular communication equipment or record said toll of said car.
2. The automatic car toll paying method according to claim 1, wherein said  
15 billing center will transmit a successful-payment message to said on-vehicle  
cellular communication equipment through said cellular base station to be an  
electronic toll payment authorization if said account or said record is completed.
3. The automatic car toll paying method according to claim 1, wherein said  
toll road or bridge further comprises an inspection location having one or more  
20 automatic photographing devices for recognizing a license plate, and when said  
car passes through said inspection location, said electronic toll payment  
authorization is transmitted to a short wireless signal receiving device in said  
inspection location through an on-vehicle wireless DSRC (Dedicated Short Range  
Communication) transmitter, and if said electronic toll payment authorization is  
25 not transmitted to said inspection location by said car, said license plate of said

car will be recognized by said one or more automatic photographing devices and an image representing said car passing said inspection location and a vehicle identification number of said car will be an evidence for processing a toll supplying.

5     4.     The automatic car toll paying method according to claim 3, wherein said on-vehicle wireless DSRC (Dedicated Short Range Communication) transmitter and said short wireless signal receiving device are microwave communication media.

5.     The automatic car toll paying method according to claim 3, wherein said  
10 on-vehicle wireless DSRC (Dedicated Short Range Communication) transmitter and said short wireless signal receiving device are infrared communication media.

6.     The automatic car toll paying method according to claim 1, wherein said on-vehicle cellular communication equipment employs a hot key conveniently to call said specific number representing said log in or said log out of said automatic  
15 payment.